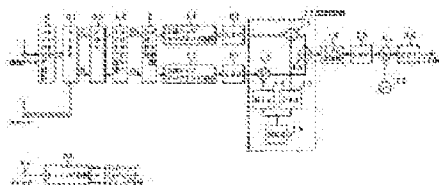


**OFDM MODULATION METHOD, OFDM DEMODULATION METHOD OFDM MODULATOR AND OFDM DEMODULATOR****Publication number:** JP7226724 (A)**Publication date:** 1995-08-22**Inventor(s):** SEKI TAKASHI; SUGITA YASUSHI; ISHIKAWA TATSUYA**Applicant(s):** TOSHIBA CORP**Classification:****- international:** *H04L27/36; H04J1/00; H04J11/00; H04L27/38; H04L27/34; H04J1/00; H04J11/00; H04L27/38;* (IPC1-7): H04J11/00; H04J1/00; H04L27/36; H04L27/38**- European:****Application number:** JP19940018003 19940215**Priority number(s):** JP19940018003 19940215**Abstract of JP 7226724 (A)**

**PURPOSE:**To reduce the circuit scale of LPFs by allowing the modulator to adopt the LPFs whose characteristic is not sharp. **CONSTITUTION:**A memory 62 provides the output of N-sets of information symbol data including guard band use 0 symbol data and N-sets of 0 symbol data. A 2N point IFFT circuit 63 generates an OFDM (orthogonal frequency division multiplex modulation) modulated wave through IFFT processing at a sampling frequency  $2f_s$ . While the sampling frequency of the OFDM modulated wave is  $2f_s$ , a band corresponding to N-sets of symbol data is  $f_s$ , then a pitch of a loopback spectrums is spread twice in comparison with a conventional method. After the sampling frequency of the OFDM modulated wave is converted into  $4f_s$  double sampling circuits 64, 65, the resulting wave is subjected to band limit by LPFs 66, 67 and the result is subjected to orthogonal modulation at an orthogonal modulator 12 by using a carrier whose frequency is  $f_s$ . Since the pitch of the spectrums of the OFDM modulated wave is widened, the LPFs 66, 67 whose characteristic is not sharp are adopted.



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